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LOGINID:ssptasxml624

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 1          Web Page for STN Seminar Schedule - N. America
NEWS 2 DEC 01    ChemPort single article sales feature unavailable
NEWS 3 APR 03    CAS coverage of exemplified prophetic substances
                  enhanced
NEWS 4 APR 07    STN is raising the limits on saved answers
NEWS 5 APR 24    CA/CAPLUS now has more comprehensive patent assignee
                  information
NEWS 6 APR 26    USPATFULL and USPAT2 enhanced with patent
                  assignment/reassignment information
NEWS 7 APR 28    CAS patent authority coverage expanded
NEWS 8 APR 28    ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS 9 APR 28    Limits doubled for structure searching in CAS
                  REGISTRY
NEWS 10 MAY 08   STN Express, Version 8.4, now available
NEWS 11 MAY 11   STN on the Web enhanced
NEWS 12 MAY 11   BEILSTEIN substance information now available on
                  STN Easy
NEWS 13 MAY 14   DGENE, PCTGEN and USGENE enhanced with increased
                  limits for exact sequence match searches and
                  introduction of free HIT display format
NEWS 14 MAY 15   INPADOCDB and INPAFAMDB enhanced with Chinese legal
                  status data
NEWS 15 MAY 28   CAS databases on STN enhanced with NANO super role in
                  records back to 1992
NEWS 16 JUN 01   CAS REGISTRY Source of Registration (SR) searching
                  enhanced on STN
NEWS 17 JUN 26   NUTRACEUT and PHARMAML no longer updated
NEWS 18 JUN 29   IMSCOPROFILE now reloaded monthly
NEWS 19 JUN 29   EFFULL adds Simultaneous Left and Right Truncation
                  (SLART) to AB, MCLM, and TI fields
NEWS 20 JUL 09   PATDPAFULL adds Simultaneous Left and Right
                  Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS 21 JUL 14   USGENE enhances coverage of patent sequence location
                  (PSL) data
NEWS 22 JUL 14   CA/CAPLUS to be enhanced with new citing references
                  features
NEWS 23 JUL 16   GBFULL adds patent backfile data to 1855

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
                  AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

```

NEWS HOURS      STN Operating Hours Plus Help Desk Availability  
 NEWS LOGIN      Welcome Banner and News Items

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 08:04:27 ON 18 JUL 2009

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 08:05:01 ON 18 JUL 2009

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STRUCTURE FILE UPDATES: 16 JUL 2009 HIGHEST RN 1163859-78-6

DICTIONARY FILE UPDATES: 16 JUL 2009 HIGHEST RN 1163859-78-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

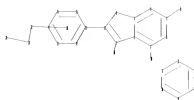
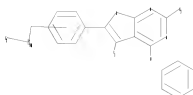
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
 Uploading C:\Program Files\Stnexp\Queries\10598070a.str



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chain nodes :
18 19 22 23 24
ring nodes :
1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 29 30 31 32 33 34
ring/chain nodes :
10
chain bonds :
1-10 5-19 7-18 8-11 22-23 23-24
ring bonds :
1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 11-12 11-16 12-13 13-14 14-15
15-16 29-30 29-34 30-31 31-32 32-33 33-34
exact/norm bonds :
1-10 3-9 5-19 7-18 8-9 23-24
exact bonds :
2-7 7-8 8-11 22-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 29-30
29-34 30-31 31-32 32-33 33-34
isolated ring systems :
containing 1 : 11 :

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G1:H,CH3

G2:O,OH,N,Hy,Ak

Match level :

```

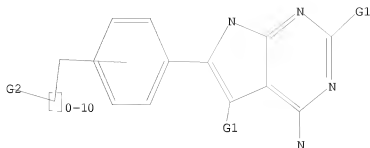
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 18:CLASS 19:CLASS 22:CLASS
23:CLASS 24:CLASS 28:Atom 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS
34:CLASS

```

L1 STRUCTURE UPLOADED

10598070

=> d  
L1 HAS NO ANSWERS  
L1 STR



G1 H, Me  
G2 O, CH, N, Hy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam  
SAMPLE SEARCH INITIATED 08:05:28 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 287 TO ITERATE  
  
100.0% PROCESSED 287 ITERATIONS 9 ANSWERS  
SEARCH TIME: 00.00.01  
  
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 4724 TO 6756  
PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> s l1 ful  
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 185.40 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SEARCH INITIATED 08:05:36 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 6728 TO ITERATE  
  
100.0% PROCESSED 6728 ITERATIONS 320 ANSWERS  
SEARCH TIME: 00.00.01

L3 320 SEA SSS FUL L1

=> fil capl		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	185.88	186.10

FILE 'CAPLUS' ENTERED AT 08:05:40 ON 18 JUL 2009  
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FILE COVERS 1907 - 18 Jul 2009 VOL 151 ISS 4  
 FILE LAST UPDATED: 16 Jul 2009 (20090716/ED)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CPlus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CPlus family of databases will soon be updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s l3

L4 116 L3

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.50	186.60

FILE 'REGISTRY' ENTERED AT 08:05:56 ON 18 JUL 2009  
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STRUCTURE FILE UPDATES: 16 JUL 2009 HIGHEST RN 1163859-78-6  
 DICTIONARY FILE UPDATES: 16 JUL 2009 HIGHEST RN 1163859-78-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when

10598070

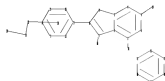
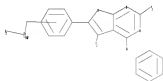
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10598070a.str



```
chain nodes :
18 19 22 23 24
ring nodes :
1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 29 30 31 32 33 34
ring/chain nodes :
10
chain bonds :
1-10 5-19 7-18 8-11 22-23 23-24
ring bonds :
1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 11-12 11-16 12-13 13-14 14-15
15-16 29-30 29-34 30-31 31-32 32-33 33-34
exact/norm bonds :
1-10 3-9 5-19 7-18 8-9 23-24
exact bonds :
2-7 7-8 8-11 22-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 29-30
29-34 30-31 31-32 32-33 33-34
isolated ring systems :
containing 1 : 11 :
```

G1:H,CH3

G2:O,OH,N,Hy,Ak

10598070

Match level :

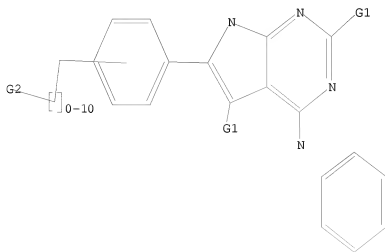
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS  
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 18:CLASS 19:CLASS 22:CLASS  
23:CLASS 24:CLASS 28:Atom 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS  
34:CLASS

L5 STRUCTURE UPLOADED

=> d

L5 HAS NO ANSWERS

L5 STR



G1 H, Me

G2 O, CH, N, Hy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l5 sub=l3

ENTER SUBSET SEARCH SCOPE - SAMPLE, FULL, RANGE, OR (END):ful  
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 44.00 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
FULL SUBSET SEARCH INITIATED 08:07:13 FILE 'REGISTRY'  
FULL SUBSET SCREEN SEARCH COMPLETED - 314 TO ITERATE

100.0% PROCESSED 314 ITERATIONS  
SEARCH TIME: 00.00.01

247 ANSWERS

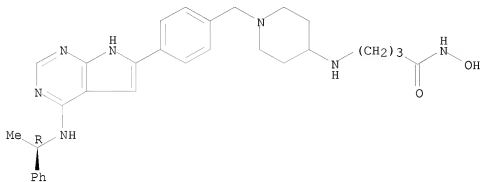
L6 247 SEA SUB=L3 SSS FUL L5

=> d scan

10598070

L6 247 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Butanamide, N-hydroxy-4-[[1-[[4-[[4-[(1R)-1-phenylethyl]amino]-7H-  
ME pyrrolo[2,3-d]pyrimidin-6-yl]phenyl]methyl]-4-piperidinyl]amino]-  
C30 H37 N7 O2

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

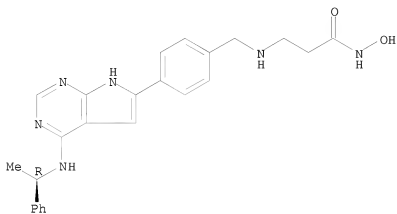
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3



10598070

L6 247 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Propanamide, N-hydroxy-3-[[[4-[4-[[[(1R)-1-phenylethyl]amino]-7H-  
pyrrolo[2,3-d]pyrimidin-6-yl]phenyl]methyl]amino]-  
ME C24 H26 N6 O2

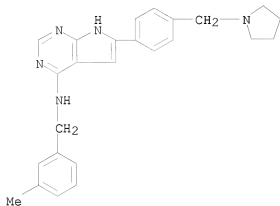
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10598070

L6 247 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
N-[(3-methylphenyl)methyl]-6-[4-(1-pyrrolidinylmethyl)phenyl]-  
MF C25 H27 N5

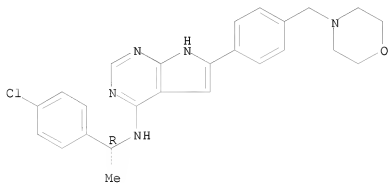


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10598070

L6 247 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
N-[(1R)-1-(4-chlorophenyl)ethyl]-6-[4-(4-morpholinylmethyl)phenyl]-  
MF C25 H26 Cl N5 O

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=&gt; d hist

(FILE 'HOME' ENTERED AT 08:04:27 ON 18 JUL 2009)

FILE 'REGISTRY' ENTERED AT 08:05:01 ON 18 JUL 2009

L1 STRUCTURE UPLOADED  
 L2 9 S L1 \$AM  
 L3 320 S L1 FUL

FILE 'CAPLUS' ENTERED AT 08:05:40 ON 18 JUL 2009

L4 116 S L3

FILE 'REGISTRY' ENTERED AT 08:05:56 ON 18 JUL 2009

L5 STRUCTURE UPLOADED  
 L6 247 S L5 SUB=L3 FUL

=&gt; s l3 not l6

L7 73 L3 NOT L6

=&gt; fil capl

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
46.88	233.48

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:09:34 ON 18 JUL 2009

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FILE COVERS 1907 - 18 Jul 2009 VOL 151 ISS 4

FILE LAST UPDATED: 16 Jul 2009 (20090716/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases will soon be updated to include new citing references

10598070

information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s 17

L8 3 L7

=> s 18 not (2009/so or 2008/so or 2007/so or 2006/so)

449293 2009/SO

953331 2008/SO

996130 2007/SO

950110 2006/SO

L9 3 L8 NOT (2009/SO OR 2008/SO OR 2007/SO OR 2006/SO)

=> s 19 not us20070135460/pn

1 US20070135460/PN

L10 2 L9 NOT US20070135460/PN

=> d 110 ibib hitstr abs 1-2

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2004:1060779 CAPLUS  
 DOCUMENT NUMBER: 142:38274  
 TITLE: Preparation of 7H-pyrrolo[2,3-d]pyrimidines as protein tyrosine kinase inhibitors  
 INVENTOR(S): Bold, Guido; Capraro, Hans-Georg; Caravatti, Giorgio; Traxler, Peter  
 PATENT ASSIGNEE(S): Novartis AG, Switz.  
 SOURCE: U.S. Pat. Appl. Publ., 41 pp., Cont.-in-part of U.S. Ser. No. 485,747.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040248911	A1	20041209	US 2004-783000	20040220
US 7323469	B2	20080129		
WO 2003013541	A1	20030220	WO 2002-EP8780	20020806
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW			
RW:	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR			
US 20040242600	A1	20041202	US 2004-485747	20040203
US 7244729	B2	20070717		
PRIORITY APPLN. INFO.:			GB 2001-19249	A 20010807
			WO 2002-EP8780	W 20020806
			US 2004-485747	A2 20040203

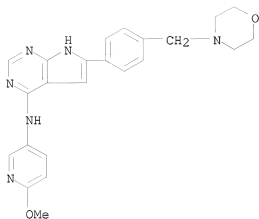
OTHER SOURCE(S): MARPAT 142:38274

IT 497840-89-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (claimed compound; preparation of pyrrolopyrimidines as protein tyrosine kinase inhibitors)

RN 497840-89-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
 N-(6-methoxy-3-pyridinyl)-6-[4-(4-morpholinylmethyl)phenyl]- (CA INDEX NAME)



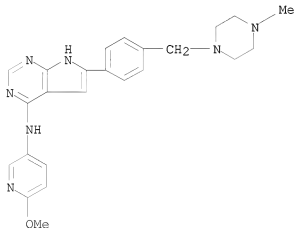
IT 497840-90-1P 497840-91-2P 497840-92-3P  
 497840-93-4P 497840-94-5P 497840-95-6P  
 497840-96-7P 497840-97-8P 497840-98-9P  
 497840-99-0P 497841-00-6P 497841-01-7P  
 497841-02-8P 497841-04-0P 497841-05-1P  
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 497841-15-3P 497841-16-4P 497841-17-5P  
 497841-18-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
 (Uses)

(claimed compound; preparation of pyrrolopyrimidines as protein tyrosine  
 kinase inhibitors)

RN 497840-90-1 CAPLUS

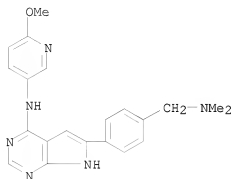
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
 N-(6-methoxy-3-pyridinyl)-6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-  
 (CA INDEX NAME)



10598070

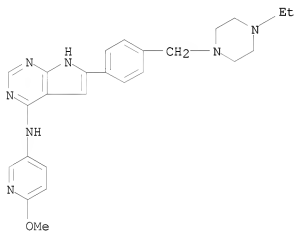
RN 497840-91-2 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
6-[4-[(dimethylamino)methyl]phenyl]-N-(6-methoxy-3-pyridinyl)- (CA INDEX NAME)



RN 497840-92-3 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
6-[4-[(4-ethyl-1-piperazinyl)methyl]phenyl]-N-(6-methoxy-3-pyridinyl)- (CA INDEX NAME)

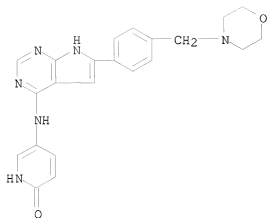


RN 497840-93-4 CAPLUS

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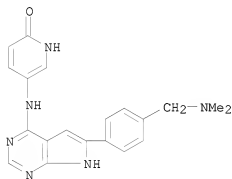


10598070



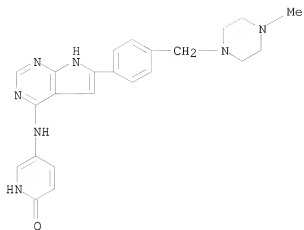
RN 497840-94-5 CAPLUS

CN 2(1H)-Pyridinone, 5-[[6-[4-[(dimethylamino)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)



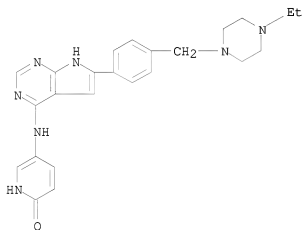
RN 497840-95-6 CAPLUS

CN 2(1H)-Pyridinone, 5-[[6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)



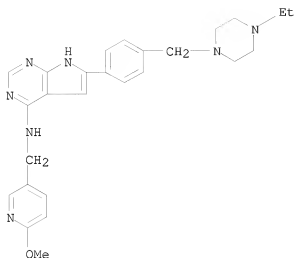
RN 497840-96-7 CAPLUS

CN 2(1H)-Pyridinone, 5-[[6-[(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)



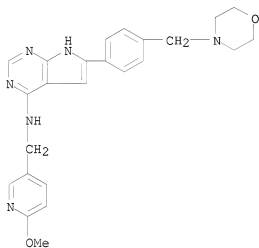
RN 497840-97-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine, 6-[[4-[(4-ethyl-1-piperazinyl)methyl]phenyl]-N-[(6-methoxy-3-pyridinyl)methyl]- (CA INDEX NAME)



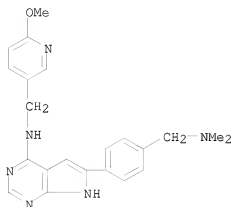
RN 497840-98-9 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
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 INDEX NAME)



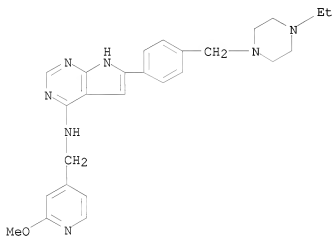
RN 497840-99-0 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
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RN 497841-00-6 CAPLUS

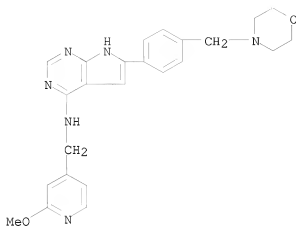
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RN 497841-01-7 CAPLUS

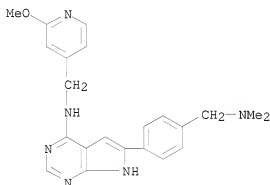
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INDEX NAME)

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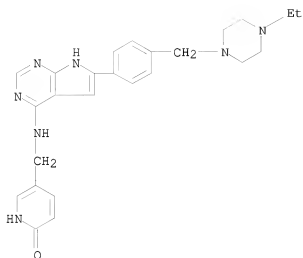
RN 497841-02-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
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(CA INDEX NAME)



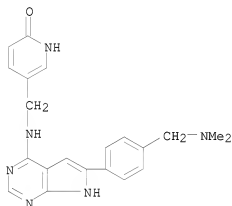
RN 497841-04-0 CAPLUS

CN 2(1H)-Pyridinone, 5-[[[6-[4-[(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)



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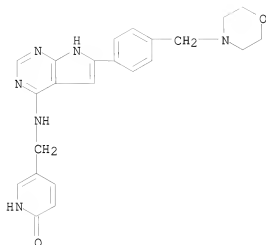
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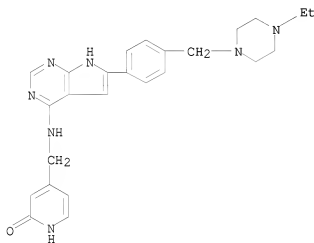
RN 497841-06-2 CAPLUS

CN 2(1H)-Pyridinone, 5-[[[6-[4-(4-morpholinylmethyl)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)

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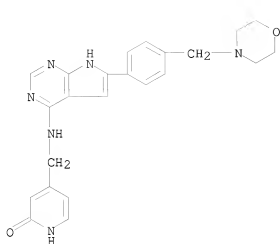


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 CN 2-(1H)-Pyridinone, 4-[[[6-[4-[(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)



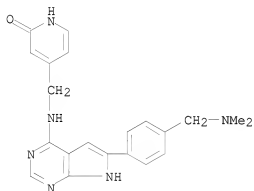
RN 497841-08-4 CAPLUS  
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RN 497841-09-5 CAPLUS

CN 2(1H)-Pyridinone, 4-[[[6-[4-[(dimethylamino)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)

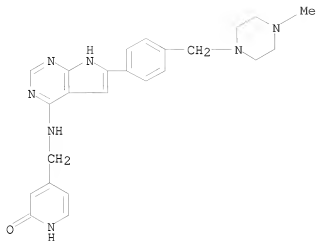


RN 497841-10-8 CAPLUS

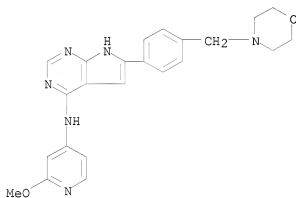
CN 2(1H)-Pyridinone, 4-[[[6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)



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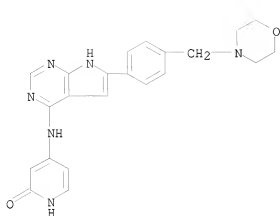


RN 497841-11-9 CAPLUS  
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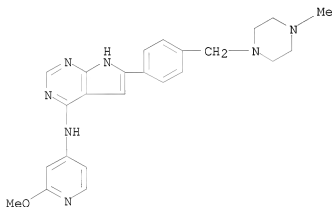
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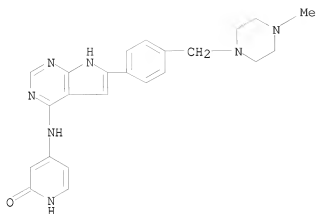
RN 497841-13-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
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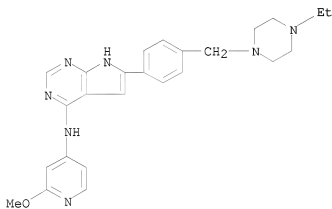
RN 497841-14-2 CAPLUS

CN 2(1H)-Pyridinone, 4-[[6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-7H-  
pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)



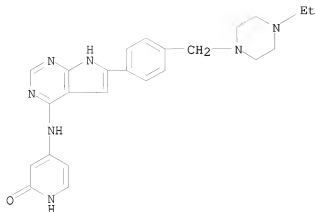
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CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
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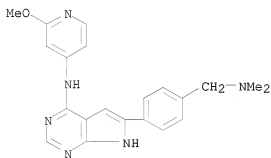
RN 497841-16-4 CAPLUS

CN 2(1H)-Pyridinone, 4-[[6-[[4-(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-  
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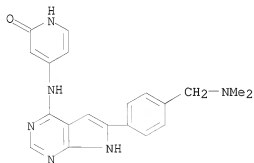
RN 497841-17-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
6-[4-[(dimethylamino)methyl]phenyl]-N-(2-methoxy-4-pyridinyl)- (CA INDEX  
NAME)



RN 497841-18-6 CAPLUS

CN 2(1H)-Pyridinone, 4-[6-[4-[(dimethylamino)methyl]phenyl]-7H-pyrrolo[2,3-  
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IT 497841-51-7P 497841-52-8P 497841-54-0P

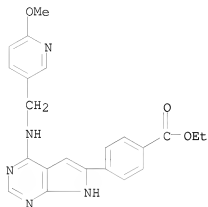
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of pyrrolopyrimidines as protein tyrosine kinase inhibitors)

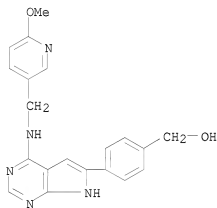
RN 497841-51-7 CAPLUS

CN Benzoic acid, 4-[4-[[6-methoxy-3-pyridinyl)methyl]amino]-7H-pyrrolo[2,3-d]pyrimidin-6-yl]-, ethyl ester (CA INDEX NAME)



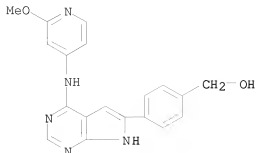
RN 497841-52-8 CAPLUS

CN Benzenemethanol, 4-[4-[[6-methoxy-3-pyridinyl)methyl]amino]-7H-pyrrolo[2,3-d]pyrimidin-6-yl]- (CA INDEX NAME)

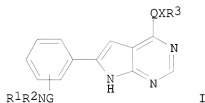


RN 497841-54-0 CAPLUS

CN Benzenemethanol, 4-[4-[(2-methoxy-4-pyridinyl)amino]-7H-pyrrolo[2,3-d]pyrimidin-6-yl]- (CA INDEX NAME)



GI



I

AB Title compds. [I; R1, R2 = H, (substituted) alkyl, cycloalkyl, heterocyclyl, R4Y(C:Z); R4 = (substituted) amino, heterocyclyl; Y = null, alkyl; Z = O, S, imino; R1R2N = heterocyclyl; R3 = heterocyclyl, (substituted) aryl; G = alkylene, CO, alkylencarbonyl; Q = NH, CO; X = null, alkylene; with provisos], were prepared. Thus, (3-chloro-4-fluorophenyl)-[6-[4-(4-ethylpiperazin-1-ylmethyl)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amine (preparation outlined) inhibited the tyrosine kinase activity of HER-1, HER-2, and KDR with IC50 = 0.0031  $\mu$ M, 0.008  $\mu$ M, and 0.0107  $\mu$ M, resp.

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 2003:133054 CAPLUS  
 DOCUMENT NUMBER: 138:170253  
 TITLE: Preparation of  
 4-amino-6-phenyl-pyrrolo[2,3-d]pyrimidines as protein  
 tyrosine kinase inhibitors  
 INVENTOR(S): Bold, Guido; Capraro, Hans-Georg; Caravatti, Giorgio;  
 Traxler, Peter  
 PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis Pharma G.m.b.H.  
 SOURCE: PCT Int. Appl., 95 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003013541	A1	20030220	WO 2002-EP8780	20020806
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RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
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AU 2002324029	A1	20030224	AU 2002-324029	20020806
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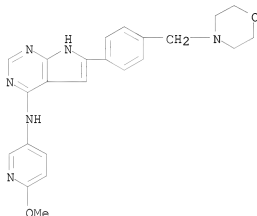
MARPAT 138:170253

IT 497840-89-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of 4-amino-6-phenyl-pyrrolo[2,3-d]pyrimidines as protein tyrosine kinase inhibitors)

RN 497840-89-8 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
N-(6-methoxy-3-pyridinyl)-6-[4-(4-morpholinylmethyl)phenyl]- (CA INDEX NAME)



IT 497840-90-1P 497840-91-2P 497840-92-3P

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497840-96-7P 497840-97-8P 497840-98-9P

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497841-14-2P 497841-15-3P 497841-16-4P

497841-17-5P 497841-18-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

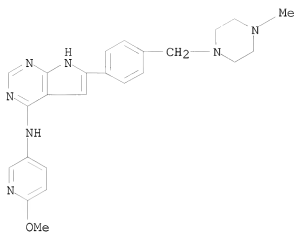
(preparation of 4-amino-6-phenyl-pyrrolo[2,3-d]pyrimidines as protein tyrosine kinase inhibitors)

RN 497840-90-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
N-(6-methoxy-3-pyridinyl)-6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]- (CA INDEX NAME)

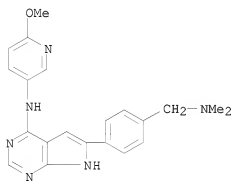


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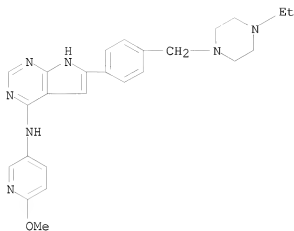
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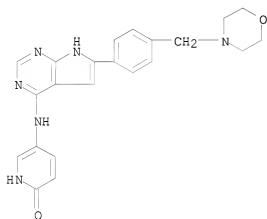
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CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
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(CA INDEX NAME)



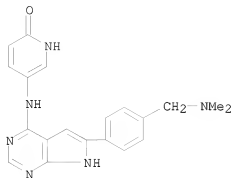
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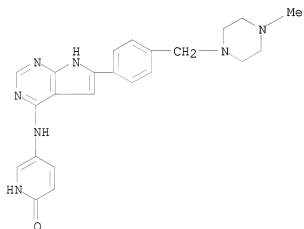
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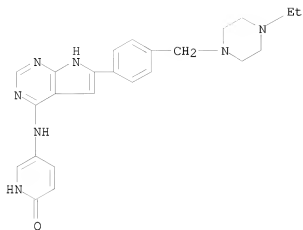
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CN 2-(1H)-Pyridinone, 5-[[6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)



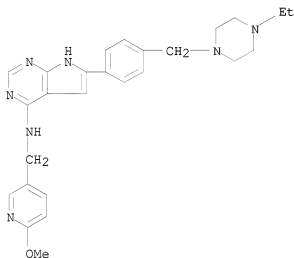
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CN 2-(1H)-Pyridinone, 5-[[6-[4-[(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)



RN 497840-97-8 CAPLUS

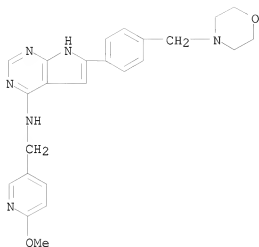
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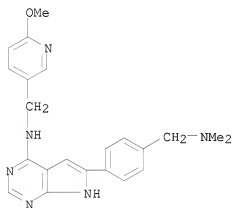
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CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
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INDEX NAME)

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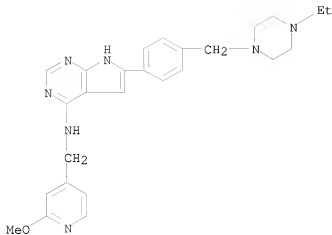


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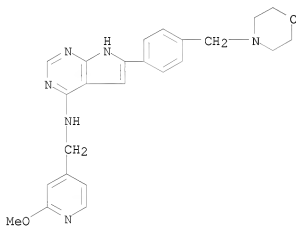
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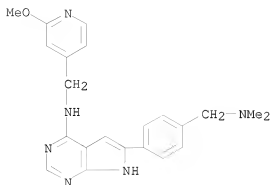
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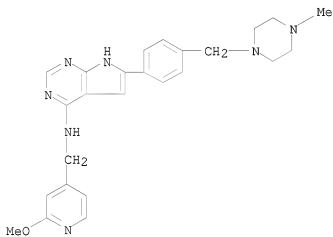
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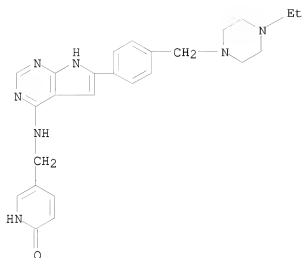
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 N-[(2-methoxy-4-pyridinyl)methyl]-6-[4-[(4-methyl-1-  
 piperazinyl)methyl]phenyl]- (CA INDEX NAME)

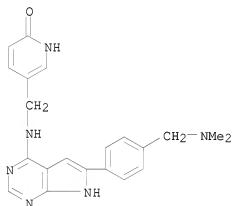


RN 497841-04-0 CAPLUS  
 CN 2(1H)-Pyridinone, 5-[[[6-[4-[(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-  
 pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)



RN 497841-05-1 CAPLUS

CN 2(1H)-Pyridinone, 5-[[[6-[4-[(dimethylamino)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)

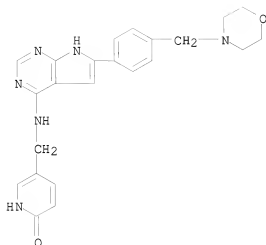


RN 497841-06-2 CAPLUS

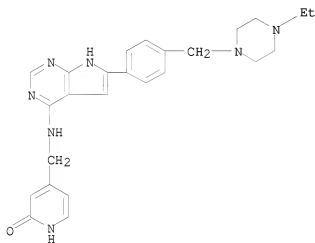
CN 2(1H)-Pyridinone, 5-[[[6-[4-(4-morpholinylmethyl)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)



10598070

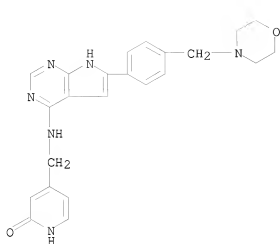


RN 497841-07-3 CAPLUS  
 CN 2(1H)-Pyridinone, 4-[[[6-[4-[(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)



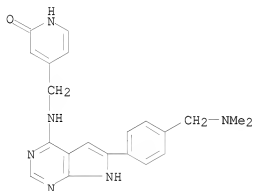
RN 497841-08-4 CAPLUS  
 CN 2(1H)-Pyridinone, 4-[[[6-[4-(4-morpholinylmethyl)phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)

10598070



RN 497841-09-5 CAPLUS

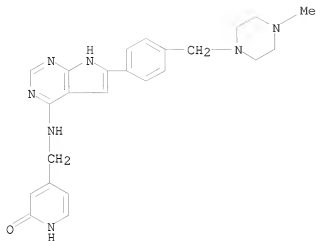
CN 2(1H)-Pyridinone, 4-[[[6-[4-[(dimethylamino)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)



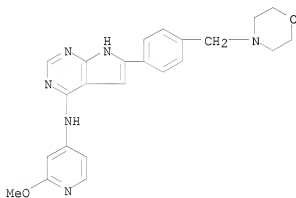
RN 497841-10-8 CAPLUS

CN 2(1H)-Pyridinone, 4-[[[6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-7H-pyrrolo[2,3-d]pyrimidin-4-yl]amino]methyl]- (CA INDEX NAME)

10598070

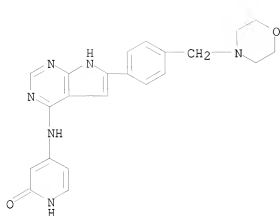


RN 497841-11-9 CAPLUS  
 CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
 N-(2-methoxy-4-pyridinyl)-6-[4-(4-morpholinylmethyl)phenyl]- (CA INDEX  
 NAME)



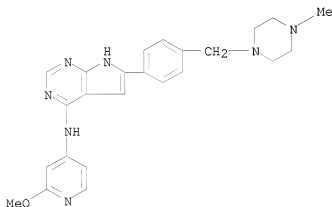
RN 497841-12-0 CAPLUS  
 CN 2(1H)-Pyridinone, 4-[[6-[4-(4-morpholinylmethyl)phenyl]-7H-pyrrolo[2,3-  
 d]pyrimidin-4-yl]amino]- (CA INDEX NAME)

10598070



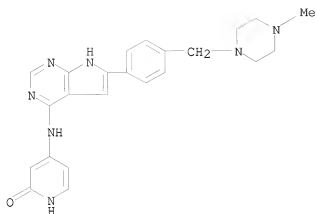
RN 497841-13-1 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
N-(2-methoxy-4-pyridinyl)-6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-  
(CA INDEX NAME)



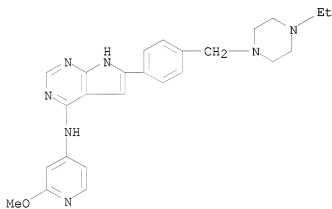
RN 497841-14-2 CAPLUS

CN 2(1H)-Pyridinone, 4-[[6-[4-[(4-methyl-1-piperazinyl)methyl]phenyl]-7H-  
pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)



RN 497841-15-3 CAPLUS

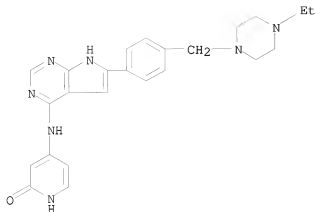
CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
6-[[4-(4-ethyl-1-piperazinyl)methyl]phenyl]-N-(2-methoxy-4-pyridinyl)-  
(CA INDEX NAME)



RN 497841-16-4 CAPLUS

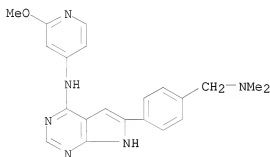
CN 2(1H)-Pyridinone, 4-[[6-[[4-(4-ethyl-1-piperazinyl)methyl]phenyl]-7H-  
pyrrolo[2,3-d]pyrimidin-4-yl]amino]- (CA INDEX NAME)

10598070



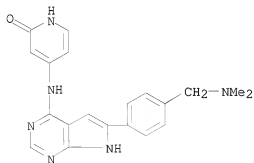
RN 497841-17-5 CAPLUS

CN 7H-Pyrrolo[2,3-d]pyrimidin-4-amine,  
6-[4-[(dimethylamino)methyl]phenyl]-N-(2-methoxy-4-pyridinyl)- (CA INDEX  
NAME)



RN 497841-18-6 CAPLUS

CN 2(1H)-Pyridinone, 4-[6-[4-[(dimethylamino)methyl]phenyl]-7H-pyrrolo[2,3-  
d]pyrimidin-4-yl]amino)- (CA INDEX NAME)



IT 497841-51-7P 497841-52-8P 497841-54-0P

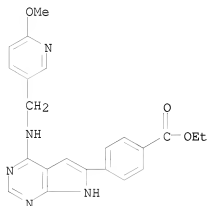
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of 4-amino-6-phenyl-pyrrolo[2,3-d]pyrimidines as protein tyrosine kinase inhibitors)

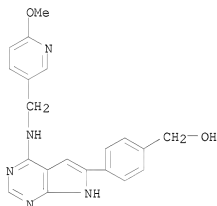
RN 497841-51-7 CAPLUS

CN Benzoic acid, 4-[4-[[6-methoxy-3-pyridinyl)methyl]amino]-7H-pyrrolo[2,3-d]pyrimidin-6-yl]-, ethyl ester (CA INDEX NAME)



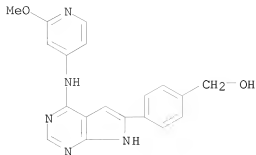
RN 497841-52-8 CAPLUS

CN Benzenemethanol, 4-[4-[[6-methoxy-3-pyridinyl)methyl]amino]-7H-pyrrolo[2,3-d]pyrimidin-6-yl]- (CA INDEX NAME)

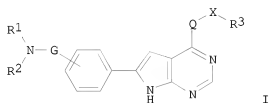


RN 497841-54-0 CAPLUS

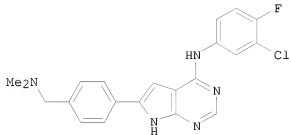
CN Benzenemethanol, 4-[4-[(2-methoxy-4-pyridinyl)amino]-7H-pyrrolo[2,3-d]pyrimidin-6-yl]- (CA INDEX NAME)



GI



I



II

AB The title compds. I [R1, R2 = H, alkyl, cycloalkyl, etc.; or NR1R2 = heterocyclyl; R3 = heterocyclyl, (un)substituted aryl; G = alkylene, CO, alkyleneCO wherein the carbonyl group is attached to the NR1R2; Q = NH, O, with the proviso that Q = O if G = CO or alkyleneCO; X is either not present or alkylene, with the proviso that a heterocyclic radical R3 is bonded via a ring carbon if X is not present] and their salts, useful for treatment of a disease which responds to an inhibition of a protein tyrosine kinase, especially for the treatment of a proliferative disease, such as a tumor, were prepared and formulated. E.g., a 4-step synthesis of II, starting from Et 4-(4-chloro-7H-pyrrolo[2,3-d]pyrimidin-6-yl)benzoate and 3-chloro-4-fluoroaniline, was given. Compds. I were tested for their inhibition of the tyrosine kinase activity of EGF-R (HER-1), ErbB-2 (HER-2) and VEGF receptor (KDR) (data given for 21 exemplified compds.).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT